

Lumiotec OLED Panels Adopted to Illuminate National Treasure **At Tokyo National Museum**

- Highlight of Special Exhibition of Japanese-style Calligraphy -

Yamagata, Japan, July 16, 2013 – Organic light-emitting diode (OLED) lighting panels (P07 Series) made by Lumiotec Inc. have been adopted to illuminate a National Treasure currently on display at the Tokyo National Museum as part of its special exhibition “The Beauty of Japanese-style Calligraphy.”¹ The specially illuminated item is *Heike Nokyo*, a set of illustrated sutras donated by the warlord Taira no Kiyomori (1118-81) to Itsukushima Shrine, in Hiroshima Prefecture, which is where they are normally kept.

Lumiotec’s P07 Series OLED panels provide outstanding color reproductivity that enables vivid presentation of color variations plus soft, uniform, surface-radiated light that causes minimal reflection of the light fixture, creating a subdued exhibition environment. In addition, because the panels give off neither ultraviolet nor infrared rays, the light source generates heat evenly and with minimal rise in temperature.

The 5-meter wide display case containing *Heike Nokyo* was specially manufactured by Marumo, K.K. of Hiratsuka, Kanagawa Prefecture. It accommodates 13 P07C panels each having an area of 287 x 97 mm, the world’s largest with commercially available OLED lighting panels². Collectively the configuration bathes this precious National Treasure in a soft and uniform light.

The underside of the display case, at the center, is fitted with five P07C panels to enable the viewer to simultaneously admire the reverse side of *Heike Nokyo*, which is displayed on a transparent surface. In this way, visitors to the exhibition can appreciate this National Treasure for its entire beauty.



The adoption of OLED lighting panels to illuminate exhibits of this kind offers a number of salient advantages:

- The fine colors of the exhibited item are faithfully reproduced.
- There is minimal reflection of the lighting panels onto the exhibited item.
- Especially delicate items such as textiles and paper suffer less damage (fading, discoloration, etc.) than with conventional light sources³ – due to the absence of ultraviolet light and the presence of minimal damage-causing wavelength components in visible light.
- Exhibits suffer less damage from heat or temperature changes than with use of conventional light sources – owing to the absence of infrared rays and radiant heat, plus minimal temperature rise by the light source itself.
- The emitted light is remarkably soft, so it is never distracting and can be used even at floor level.
- The panels are thin and lightweight and do not require significant installation space. They can easily be used to replace conventional light sources in exhibition cases.

1 The exhibition runs from July 13 through September 8 at the Museum's Heiseikan.

(http://www.tnm.jp/modules/r_free_page/index.php?id=1602&lang=en)

2 Based on Lumiotec's data.

3 Based on comparisons of the U.S. National Institute of Standards and Technology's (NIST) "damage coefficient," which assigns numerical values to degrees of paper discoloration; the lower the coefficient value, the smaller is the impact of a light source on an exhibition item. Whereas the damage coefficient of commercially available fluorescent lamps (neutral white) typically used in museums and art galleries is 0.012, the corresponding coefficient of the Lumiotec P07 Series panels is 0.008 (based on Lumiotec's data).

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LUMIOTEC

Jointly founded by Mitsubishi Heavy Industries, Ltd. (MHI), ROHM Co., Ltd., Toppan Printing Co., Ltd., et al. in May 2008, Lumiotec Inc. is the world's first company dedicated to OLED panels for use in lighting. Following the development of a device structure simultaneously achieving outstanding luminance and long service life – features long considered impossible to accomplish together – and the realization of a large-scale linear evaporation source type in-line deposition device, a mass production line was built in Yonezawa City, Yamagata Prefecture. In January 2011 Lumiotec became the first company in the world to manufacture and launch shipments of OLED panels for lighting applications.

Website: www.lumiotec.com

CONTACT:

Starting April 1, 2013, Lumiotec has entrusted all sales activities to its parent company, Mitsubishi Heavy Industries, Ltd. (MHI):

Machinery & Steel Infrastructure Systems
Strategic Business Development Department
Lumiotec Team
Tel: +81-3-6716-3789
email: lumiotec_info@lumiotec.com